```
import cv2
import numpy as np
def transform(img, angle): # backward transformation
    height, width = img.shape
    result = np.zeros((height, width), np.uint8) # result image
    affine = np.array([[np.cos(np.radians(angle)), np.sin(np.radians(angle)), 0],
                       [-np.sin(np.radians(angle)), np.cos(np.radians(angle)), 0],
                       [0, 0, 1]]) # Affine transformation matrix
    for x in range(width):
        for y in range(height):
            p = affine.dot(np.array([x, y, 1]))
            xp = int(p[0])
            yp = int(p[1])
            if 0 \le yp \le height and <math>0 \le xp \le width:
                result[y, x] = img[yp, xp]
    return result
in_image = cv2.imread('lena.jpg', 0) # img2numpy
out_image = transform(in_image, 20)
cv2.imshow('Input Image', in_image)
cv2.imshow('Result Image', out_image)
cv2.imwrite('Lenna.png', out_image) # save result img
cv2.waitKey()
```

